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APPLICATION NO.	Fil	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/651,855	08/29/2003		Shuichi Kikuchi	10417-057002	9444	
26211	7590	05/16/2005		EXAMINER		
FISH & RIC		ON P.C. 52ND FLOOR	NGUYEN, THANH T			
153 EAST 5			ART UNIT	PAPER NUMBER		
NEW YORK, NY 10022-4611				2813		
				DATE MAILED 05/15/000	DATE MAILED: 05/1//2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/651,855	KIKUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thanh T. Nguyen	2813				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rent. reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2	28 February 2005.					
2a)⊠ This action is <b>FINAL</b> . 2b)□ -	This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-3 and 8-10</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	Claim(s) 1-3 and 8-10 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1-3 and 8-10 is/are rejected.					
Application Papers		•				
9) ☐ The specification is objected to by the Exam 10) ☑ The drawing(s) filed on 28 February 2005 is Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) ☐ The oath or declaration is objected to by the	s/are: a)⊠ accepted or b)⊡ c the drawing(s) be held in abeyand rrection is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 2/28/05.</li> </ul>	<i>'</i>	)/Mail Date formal Patent Application (PTO-152) 				

Application/Control Number: 10/651,855

Art Unit: 2813

#### **DETAILED ACTION**

### Response to Arguments

Applicant's arguments with respect to claims 1-3, 8-10 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Kawaguchi et al. (U.S. Patent No. 5,932,897).

Referring to figures 3-7, Kawaguchi et al. teaches a semiconductor device comprising:

A semiconductive layer (11) of a first conductive type (p), (see figure 3);

Forming a first gate oxide (17) and a second gate oxide (17+18) formed on the semiconductive layer;

A gate electrode (19), formed to range from the first gate oxide (17) film to the second gate oxide film (18);

Application/Control Number: 10/651,855

Art Unit: 2813

A source region (13) of a second conductive type (n+) formed adjacent to the gate electrode (19);

Drain region (16) of the second conductive type (n+) formed in a position apart from the gate electrode;

A drift region (14) of a second conductive type (n-) formed so that the drift region surround the drain region; and

An impurities layer (15) of a second conductive type (n-) formed adjacent to the drain region (16), wherein the impurities layer (15) is more highly doped than the drift region (14) (see col. 5, lines 58-66), which extends deeper into the semiconductor layer (11) than the impurities layer (15, see figure 3)

Regarding to claims 2, 9, the impurities layer (15) is formed to range at least one end of the drain region (16) to one end of the gate electrode (see figures 3, 6).

Regarding to claims 3, 10, the impurities layer (15) is formed in a surface of the drift region (14) so that it is located between one end of the drain region and one end of the gate electrode (see figure 3, 6).

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

Art Unit: 2813

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Nguyen whose telephone number is (571) 272-1695, or by Email via address Thanh.Nguyen@uspto.gov. The examiner can normally be reached on Monday-Thursday from 6:00AM to 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, can be reached on (571) 272-1702. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956 (See MPEP 203.08).

Thanh Nguyen Patent Examiner

Patent Examining Group 2800